



Diamond Digital

ENGLISH

DV270

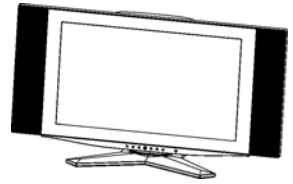
27" LCD Flat Panel Display

USER'S MANUAL

Thank you for purchasing this flat panel display. Before using your DV270, please read the "SAFETY PRECAUTIONS" section of this manual and carefully to learn how to operate the display properly. Keep this manual in a safe place.

Notes on Installation

This product is marketed with the assumption that it is to be installed by qualified personnel with relevant skills and competence. It is recommended to consult with an installation specialist or your dealer to install and set up the product. We cannot assume liabilities for damages caused by improper installation or mounting, misuse, modifications or natural disasters.



DV270



USER'S MANUAL

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Thankyou very much for choosing the DV270 LCD TV.

We recommend that you take a few minutes to read carefully through this manual before installing and switching on the TV. Please keep this manual in a safe place for future reference.

SYMBOL	SYMBOL DEFINITION
 SA 1965	DANGEROUS VOLTAGE: The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.
 SA 1966	INSTRUCTIONS: The exclamation point within an equilateral triangle to alert the user to the presence of important operating and maintenance (servicing) instructions In the literature accompanying the appliance.

Apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution - Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

IMPORTANT SAFETY INSTRUCTIONS

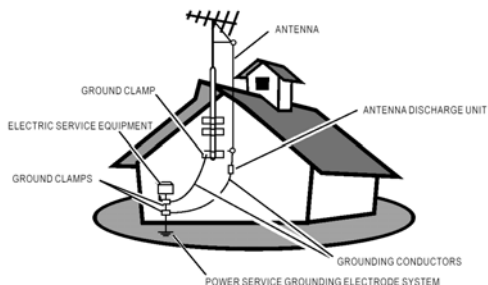
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Observe all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. The TV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your local power company.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
16. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or

- C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Tilt/Stability** – All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
19. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
20. **Power Lines** – An outdoor antenna should be located away from power lines.
21. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

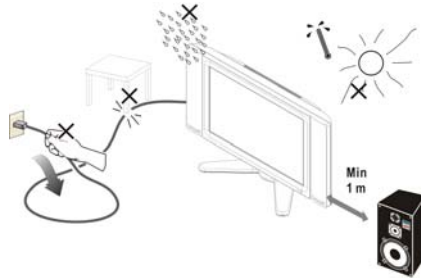
Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Please, make sure to connect the power plug to the wall outlet socket after connecting the TV to the adapter!

22. **Objects and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

PREPARATION

1. Place the TV on a solid surface.

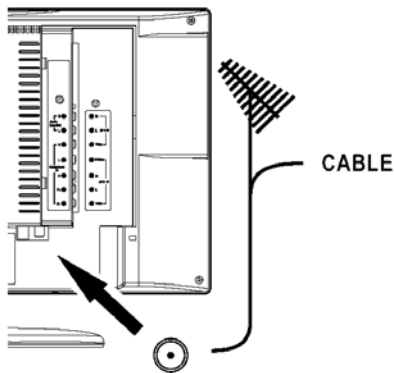


Ensure that the TV is placed in a position to allow free flow of air. Do not cover the ventilation openings on the back cover.

To prevent any unsafe situations, no naked flame sources, such as lit candles, should be placed on or in the vicinity of the LCD TV.

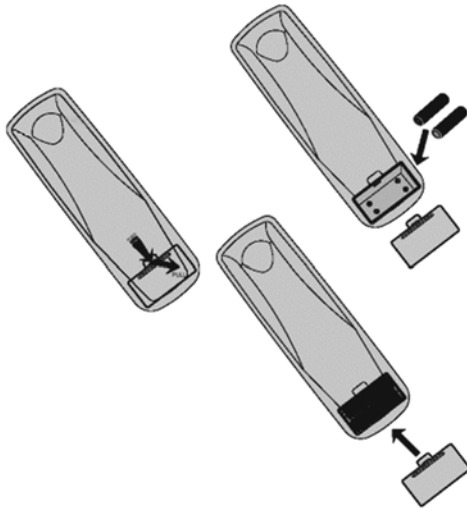
Avoid heat, direct sunlight and exposure to rain or water. The equipment shall not be exposed to dripping or splashing.

2. Insert the aerial plug firmly into the aerial socket **ANT IN 75Ω** at the back of the TV.



3. Remote control:

Remove the cover of the battery compartment. Insert the 2 batteries supplied (Type AAA 1.5V).



4. Power:

Insert the power cord into the 240V AC wall socket.

5. Turn the TV on:

Press the power button on the control panel of the TV to turn it on.
If the TV is in standby mode, the indicator on the front of the TV turns amber.

OPERATING INSTRUCTIONS

USING THE REMOTE CONTROL

POWER

Press to turn the TV on/off. The TV is never completely powered off unless it is physically unplugged.

CH

Press ▲ or ▼ (or ▲ or ▼) to browse through the available TV channels.

0~9/100 Digit buttons

Press to select a TV channel.

VOL

Press + or – (or ◀ or ▶) to adjust the volume.

SOUND

To select Mono /Stereo/Sound A /Sound B / Sound AB from TV RF input.

SLEEP

With this key you can set a time period after which the TV should switch itself to standby. Press the key repeatedly to select the number of minutes. The counter runs from 30, 60, 90, 120 minutes. The timer begins to count down from the number of minutes selected after the display has disappeared.

PIP

Toggle Picture in Picture on/off



MENU Press repeatedly to display OSD menu.

DPF
Not Supported.

SWAP
Not Supported.

WIDE
Includes 3 modes: Press repeatedly to select 4:3 / 16:9/16:9 *non-Linear*.

MUTE

Disable / enable sound.

DISPLAY

- (1) Display Channel number when using RF input.
- (2) Display input source when using other input except TV RF input.

PRE-CH

To display the previously selected TV channel.

TV / VIDEO

Select your input source: press repeatedly to select **TV, AV1, AV2, S-VIDEO** or **COMPONENT** mode, according to where you connected your external source.

- **AV1 / AV2** for a VCR connected to the AV connectors of the TV.
- **S-VIDEO** for a S-Video VCR connected to the S-VIDEO connector of the TV.
- **COMPONENT** for a DVD/DTV Set Top Box or another component video device connected to **Y, Pb, Pr** and to the **AV AUDIO** inputs **L** and **R**.

WIRELESS

Not supported.

PC

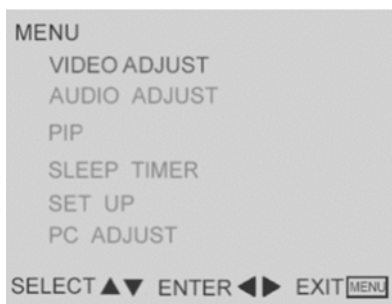
Select input source from PC.

USING THE MENUS

1. Press the **MENU** button repeatedly to display each menu.
2. Use the cursor up/down to select a menu item or adjust the setting of Menu item.
3. Use the cursor left/right to enter a submenu or enable the function.
4. Press the **MENU** button to exit the menu.

MAIN MENU

Press the **MENU** button to open the OSD (On Screen Display). Adjustable items include: **VIDEO ADJUST**, **AUDIO ADJUST**, **PIP**, **SLEEP TIMER**, **SET UP** and **PC ADJUST**.



Video Adjust

VIDEO ADJUST	
CONTRAST	80
BRIGHTNESS	50
SATURATION	60
TINT	50
BLACK LEVEL	100
SHARPNESS	0
RESET	

SELECT ▲▼ ADJUST ◀▶ EXIT MENU

1. **Contrast, Brightness** and **Saturation** are adjusted from 0 to 100.
2. **Black Level** is adjusted from 0 to 100.
3. **Sharpness** is adjusted from -5 to +5.
You can adjust picture contrast, brightness, colour, tint and sharpness to the levels you prefer.
4. **Reset** will restore settings to the default value.



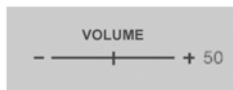
When adjusting any item a sub-OSD will be displayed.

Audio Adjust

AUDIO ADJUST	
VOLUME	13
BASS	11
TREBLE	9
RESET	
W HEAD PHONE	OFF
SRS	OFF

SELECT ▲▼ ADJUST ◀▶ EXIT MENU

1. **Volume** is adjustable from 0 to 100.
2. **Bass** and **Treble** are adjustable from 0 to 100.
You can adjust Volume, Bass and Treble to the levels you prefer.



When adjusting any item a sub-OSD will be displayed.

PIP

1. **PIP** function toggles small picture on / off
2. **Position** moves the small picture
3. **Source:** Choose from TV /AV1/AV2/S VIDEO
4. **Audio Select:** Choose from MAIN/SUB



Sleep Timer adjusts the time period after which the TV should enter standby. The counter runs from 30 > 60 > 90 > 120 minutes. The timer begins to count down from the number of minutes selected after the display has disappeared.

Note: To view the remaining time, press the **SLEEP** button once. To cancel the sleep time, repeatedly press the **SLEEP** button until “----” appears. If you turn the TV off after setting the sleep time, the setting will be erased.

Set up

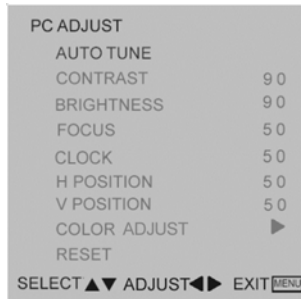


1. **Blue screen:** When no video input is detected, the screen will be blue or blank. If set to ON, the screen will be blue. If set to OFF, the screen will be blank. Default is ON.
2. **Language:** Configure language. OSD MENU includes English / Chinese. Default is English.
3. **System:** Select the TV broadcast system.

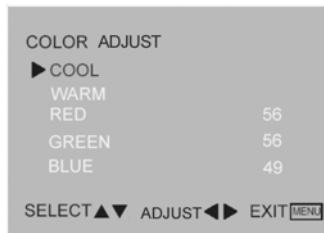
4. **CH Search:** Search for all TV channels and store in memory.
5. **CH Del:** ◀/Add. ▶ If “Del” the channel will be hidden.
6. **Manu Scan:** Search manually for TV channels, and Program channel by channel. After locating a new channel, press the **Menu** key, and it will be automatically saved in the next available channel.
7. **CH Swap** save the location of current channel and destination channel for each other
8. **View Mode:** Includes 3 modes: Press repeatedly to select 4:3 / 16:9 / non-Linear.
9. **Reset** will set the default values for **Blue Screen** and **Language**.

PC Adjust

1. **Auto tune** is the auto-sizing function for VGA input.
2. **Contrast, Brightness, Focus, Clock, H Position, V Position and Colour Adjust** are the functions for PC adjustment.



Colour Adjust Adjusts the colour temperature of the display.

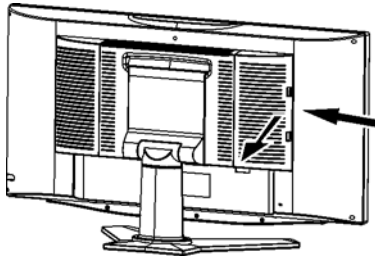


Connecting Peripheral Equipment

FRONT PANEL CONTROLS



- Power Key:** Press to toggle power on or off.
- Menu Key:** Press to show the OSD menu and exit OSD menu on the TV.
- Down / Up Key:** Press to select function or channel.
- / + Key:** Press to confirm function selection or adjustment.
- Source Key:** Press to select input source.



There is a wide range of video and audio equipment that can be connected to your LCD TV. The following connection diagrams show you how to connect them.

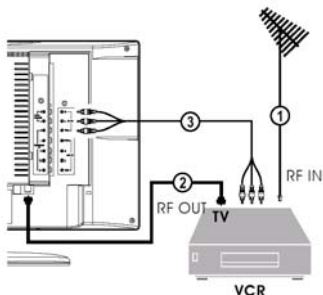
PREPARATION

Remove the back plate from the back of the TV as shown in the illustration. Lay the LCD TV with the screen facing down on a table, as it will be easier to connect your peripheral equipment. Please take precautions not to damage the screen.

VIDEO RECORDER

How to connect

1. Connect the supplied antenna cable ① to the **RF IN** port of your VCR.



2. Connect another RF cable ② from the output **RF** of your VCR to the input of your TV. Better quality can be obtained if you also connect the Video, Audio left and right (only for stereo equipment) cables ③ to the **VIDEO**, **AUDIO L** and **R** inputs **AV**.

If you are using only mono equipment, connect only the **VIDEO** and the **AUDIO L (Mono)** ports.

If your VCR has an S-VHS video jack:

For improved picture quality, connect an **S-Video** cable to the S-VIDEO input on the TV, instead of connecting the VCR to the **VIDEO** port.

S-Video does not provide audio, audio cables must still be connected to provide sound.

Watching VCR

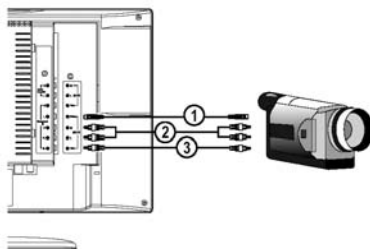
1. If you use connection ②, select **CH Search**.
2. If you use connection ③, select **AV1**.
3. Insert videotape in the VCR and press the **PLAY** button.

CAMERA, CAMCORDER, VIDEO GAME SET ...

DIGITAL CAMERA

How to connect

1. Connect your digital camera, camcorder or videogame set to **VIDEO** port ③ and **AUDIO L** ② for mono equipment.
2. For stereo equipment also connect **AUDIO R** ②. S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cable with the S-VIDEO input ① and **AUDIO** input ②.



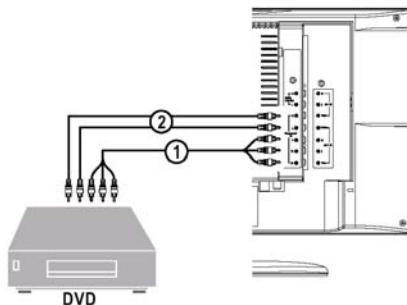
How to use

1. Select **VIDEO AV2** or **S-VIDEO**.
2. Turn on the external AV equipment.

DVD PLAYER

How to connect

1. Connect the three separate component video cables ① to the DVD player's **Y, Pb, Pr** or **Y, Cb, Cr** ports and to the **Y, Pb** and **Pr** ports on the TV.
2. Connect the audio cables ② to the DVD player's **AUDIO L** and **R** ports and to the **AUDIO L** and **R** ports on the TV.

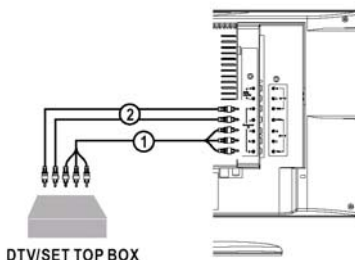


How to use

1. Select **COMPONENT**
2. Turn on the DVD set.

DIGITAL SET TOP BOX

Connect the Digital Set Top Box to the LCD TV, using the **COMPONENT INPUT** and ensure an aerial is connected to the set top box.



How to connect

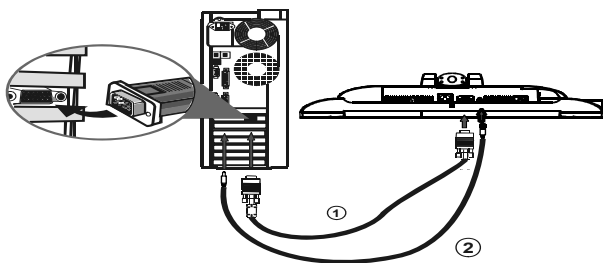
1. Connect the three separate component video cables ① to the DTV player's **Y, Pb, Pr** or **Y, Cb, Cr** ports and to the **Y, Pb** and **Pr** ports on the TV.
2. Connect the audio cables ② to the DTV player's **AUDIO L** and **R** ports and to the **AUDIO L** and **R** ports on the TV.

How to use

1. Select **COMPONENT**.
2. Turn on the DTV Set Top Box.

Warning: If you notice scrolling images, wrong colours or no colour, no picture or even combinations of these on your screen, check if the connections are inserted properly. Check if the cable colours match with the Input connector colours.

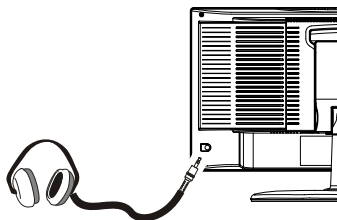
PC





How to connect PC input

- ①. Insert a D-sub signal cable into the D-sub port located on the back of the LCD TV.
- ②. Insert the Audio cable into the PC audio connector port on the back of the LCD TV.

HEADPHONES



1. Insert the plug into the headphones port , when inserted, the headphones will block the speaker audio output.
2. Press the  key on the remote control to mute the sound from the headphones and the internal loudspeakers of the TV.
3. Press the cursor left / right to adjust the volume.

Note: When a TV channel or external AV source is blocked because of a rating set via the Parental control menu, the headphones are also muted.

TIPS

Caring for the screen

Do not rub or strike the screen with anything hard as this may scratch, mark, or damage the screen permanently.

Unplug the LCD TV before cleaning the screen. Dust the TV by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners.

Mobile telephone warning

To avoid disturbances in picture and sound, malfunctioning of your TV or even damage to the TV, keep your mobile telephone away from the TV.

End of life directives

Your new receiver contains materials that can be recycled and reused.

At the end of its life, specialized companies can dismantle the discarded receiver and concentrate the reusable materials to minimize the amount of waste.

Please ensure you dispose of your old receiver according to local regulations.

Product Specification

Feature	27" screen WXGA (1280 x 720) Resolution High Brightness (550 cd/m ²) High Contrast Ratio (600:1) Wide Viewing Angle (170 H / 170 V) PC Input
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Items		Specification	
LCD Panel	Screen Size	27" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1280 x 720 (WXGA)	
	Display Area (opening) H x V	597mm x 336mm	
	Pixel Pitch	0.4665mm x 0.4665mm	
	Display colours	16.7 million	
	Contrast Ratio	600:1	
	Brightness	550 cd/ m ²	
	Viewing Angle	170° (Horizontal)/ 170° (Vertical)	
	Response Time	16.6ms	
	Lamp Type/Life	50000 hrs	
	Colour Temperature	Cool / Warm	
TV Function	TV Standard	PAL B/G ,D/K , I , NTSC M	
	Sound systems	NICAM ,A2 ,BTSC	
	Video Colour systems	PAL / SECAM / NTSC	
Video Inputs	AV1	RCA x 1	Audio L/R x 1
	AV2	RCA x 1	Audio L/R x 1
		S-Video x 1	
Component	YPbPr x 1	Audio L/R x 1	

PC Input	Signal Input	Analog: D-Sub 15 pin (detachable cable)
	PnP compatibility	DDC 2B
	Input frequency	Analog: FH: 31.5kHz to 48kHz FV: 60Hz to 75Hz
	Recommended	Analog: 1024 x 768 (60Hz)
	Input Audio	Headphone Mini-jack for stereo (3.5ø)
Audio Output	Audio Output: L / R	Speaker (built-in): Two 3 watt speakers
		Headphone Mini-jack for stereo (3.5ø)
		Line Output (RCA L/R)
OSD language	English/ Chinese(Default Language: English)	
Table Stand	Included	
Wall Mount	VESA 100 x 100 mm	
Power	Power Supply	AC100V~240V, 50/60Hz
	Power Consumption	<140W
Panel Tilt	Forwards/Backwards/Rotation	-5° / +20° / ±35°
Environment	Operating temp	+ 0 °C ~ + 40 °C
	Storage temp	- 25 °C ~ + 60 °C
	Operating humidity	10% ~ 85%
Dimensions	W x H x D (with stand)	898 x 470 x 287(mm)
Weight (net)	Kg (w/o Accessories)	13.4 Kg
Accessories	Remote Control, Batteries (x2), AC Power Cord, D-sub Signal Cable, Audio cable, User's Manual	

Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money since charges for receiver installation and adjustments of customer controls are not covered under your warranty.

Symptoms	Items to Check and Actions to follow
Ghosting or double image	*This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	*Check that the TV's AC power cord is plugged into the mains socket. *Unplug the TV, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the TV again.
No picture	*Check antenna connections at the rear of the TV to see if it is properly connected to the TV. *Possible broadcast station trouble. Try another channel. *Adjust the contrast and brightness settings. *Check the Closed Captions control. Some Text modes could block the screen.
Good picture but no sound	*Increase the Volume. *Check that the TV is not muted; toggle the mute button on the remote control.
Good sound but poor colour	*Adjust the contrast, colour and brightness settings.
Poor picture	*Sometimes, poor picture quality occurs when multiple peripherals are connected simultaneously. In this case switch off one of the other peripherals
Snowy picture and noise	*Check the antenna connection
Horizontal dotted line	*This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.) *Turn off the interfering equipment.
Television not responding to remote control	*Check whether the batteries are working, and the polarity is correct. Replace if necessary *Clean the remote control sensor lens on the TV. *Try using the buttons on the front of your TV. *Select the TV mode to be sure your remote control is in the TV mode.

GLOSSARY

Audio / Video Inputs

Located on the rear and the front of the receiver, these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Menu

An on-screen listing of feature controls shown on the TV screen that are made available for user adjustments.

Multichannel Television Sound (MTS)

The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Programming

The procedure of adding or deleting channel numbers into the TV's memory. The TV only remembers the locally available or desired channel numbers and skips over any unwanted channel numbers.

RF

Radio Frequency or modulated signal design used as the carrier for television broadcasts.

Second Audio Program (SAP)

Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed program).

Sleep Timer

This function allows the user to set the time period after which the TV will enter standby mode.

S-Video Input

Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides improved picture resolution, sharpness, and clarity.

Service Contacts

If problems remain after checking this manual, please contact your place of purchase or contact. Australian Service Contacts visit the Mitsubishi Electric Australia web site at www.mitsubishielectric.com.au for details of your nearest Mitsubishi Electric Authorised Service Centre or contact the Service Department for your state:

New South Wales and Australian Capital Territory

348 Victoria Road
Rydalmere, NSW, 2116
Telephone: 1300 651 808
Fax: (02) 9684-7684

Queensland

12 / 469 Nudgee Road
Hendra, QLD, 4011
(Airlink Business Park)
Telephone: (07) 3623-2000
Fax: (07) 3630-1888

South Australia and Northern Territory

77 Port Road
Hindmarsh, SA, 5007
Telephone: (08) 8340-0444
Fax: (08) 8340-0555

Victoria and Tasmania

4 / 303 Burwood Hwy
East Burwood, VIC, 3151
Telephone: (03) 9262-9899
Fax: (03) 9262-9850

Western Australia

5 / 329 Collier Road
Bassendean, WA, 6054
Telephone: (08) 9377-3411
Fax: (08) 9377-3499